2c-Aim: Write a program to interchange a digit store in 0011, store the new value in memory allocation and store the addition of both number in 0013. Code: LDA 0011 MOV B,A RRC RRC RRC RRC STA 0012 ADD B STA 0013 HLT Memory address / value: 0011 53 0012 0013 **2D-Aim:** Write a p to increment the value of the series of 5 variables by 1. Code: LXI H,0001 MVI C,05 MVI B,00 LOOP: MOV A,M ADI 01 MOV M,A INX H DCR C JNZ LOOP HLT

Memory address / value: 0001 01 0002 02 0003 03 0004 04 0005 05 3A-Aim: W a 8085 P to copy a series of five number, from memory allocation E002 to E004 and value will be copying in memory allocation E005 to E009. Code: LXI D,E000 LXI H,E005 MVI C,05

UP: MOV B,M

LDAX D

STAX D

INX H

INX D

DCR C

JNZ UP

Memory address / value:

55

56

HLT

E000

E001

E002

E003

E004

MOV M,A

3B-AIM: W.A.8085.P to reverse the value of 5 number starting from memery location E004 to E001 and copy the value from the memory allocation . Code: LXI D,E004 LXI H,E005 MVI C,05 UP: MOV B,M LDAX D MOV M,A STAX D INX H INX D DCR C JNZ UP HLT Memory address / value: E000 55 E001 56 E002 E003 E004 **4A-Aim:** W,a ,8085.p to store the largest number in memory allocation in E003(two are stored in E001 to E002). Code: LXI H,E001 MOV A,M INX H CMP M JNC AHEAD AHEAD: MOV A,M

STA E003

	11	T
-	-11	
	11	- '

Memory address / value:

E001 05

E002 02

E003 00

4B: WRITE A 8085 PROGRAM TO FIND THE SUM OF EVEN NUMBERS TO STORE IN THE SERIES OF FOUR NUMBERS. SERIES STARTS FROM E001 NUMBER OF ELEMENT STORED IN E004 AND RESULT MUST BE LOADED IN MEMORY E005.

CODE:

LDA E000

MOV C,A

MVI B,00

LXI H,E001

BACK: MOV A,M

ANI 01

JZ SKIP

MOV A,B

ADD M

MOV B,A

SKIP: INX H

DCR C

JNZ BACK

MOV A,B

STA E005

HLT

MEMORY/VALUE:

E000 04

E001 05

E002 02

E003 03

E004 04

E005 08

OUTPUT:

VVAII	
001B	76
E000	04
E001	05
E002	02
E003	03
E004	04
E005	08

5b: write a program in 8085 to find factorial of a number memory location E010

CODE:

START: LXI H,E010

MOV B,M

MVI A,00

MOV D,B

DCR B

JZ CNT

MOV E,B

MUL: ADD D

DCR B

JNZ MUL

MOV D,A

MVI A,00

DCR B

JMP START

CNT: MOV A,D

HLT

MEMORY / VALUE

E010 04

6A: WRITE A ASSEMBLY PROGRAM TO DIVIDE THE TWO NUMBER STORED DIVIDEND IN E000 AND REMAINDER IN E002 AND QOUTIENT IN E003

CODE:

LXI H, E000

MOV B, M

MVI C, 00

CMP B

SUB B

INR C

LOOP: STA E002

MOV A, C

HLT

MEMORY/VALUE

E000 03

E001 08

E002 00

E003 00

6B:PROGRAM TO STORE 5 RANDOM NUMBER E000TO E004

CODE:

START: MVI D,05

W: LXI H,E000

MVI C,05

X: MOV A,M

INX H

MOV B,M

CMP B

JM Y

Y: MOV M,A

DCX H

MOV M,B

INX H

DCR C

JNZ X

DCR D

JNZ W

HLT

MEMORY/ VALUE

E000 /02

E001/01

E002/06

E003/04

E004/02

6D:PROGRAM TO UNPACK A PACK NUMBER STORED IN D000 STORE THE RESULT IN D000 AND D002

CODE:

LDA D000

MOV B,A

ANI FO

RRC

RRC

RRC

RRC

STA D001

MOV A,B

ANI OF

STA D002

HLT

MEMORY/VALUE

D000 / 53

OUTPUT:

0013	70
D000	53
D001	05
D002	03